

Data Types	
Integer	-256, 15
Float	-253.23, 1.253e-10
String	"Hello", 'Goodbye', ""Multiline""
Boolean	True, False
List	[value, ...]
Tuple	(value, ...) ¹
Dictionary	{ key: value, ... }
Set	{ value, value, ... } ²

¹ Parentheses usually optional
² Create an empty set with set()

Statements	
If Statement	
if <i>expression</i> :	statements
elif <i>expression</i> :	statements
else:	statements
While Loop	
while <i>expression</i> :	statements
For Loop	
for <i>var</i> in <i>collection</i> :	statements
Counting For Loop	
for <i>i</i> in range(<i>start</i> , <i>end</i> [, <i>step</i>]):	statements
(<i>start</i> is included; <i>end</i> is not)	

Arithmetic Operators			
<i>x</i> + <i>y</i>	add	<i>x</i> - <i>y</i>	subtract
<i>x</i> * <i>y</i>	multiply	<i>x</i> / <i>y</i>	divide
<i>x</i> % <i>y</i>	modulus	<i>x</i> ** <i>y</i>	<i>x</i> ^{<i>y</i>}
Assignment shortcuts: <i>x op= y</i>			
Example: <i>x += 1</i> increments <i>x</i>			

Comparison Operators			
<i>x</i> < <i>y</i>	Less	<i>x</i> <= <i>y</i>	Less or eq
<i>x</i> > <i>y</i>	Greater	<i>x</i> >= <i>y</i>	Greater or eq
<i>x</i> == <i>y</i>	Equal	<i>x</i> != <i>y</i>	Not equal

Boolean Operators		
not <i>x</i>	<i>x</i> and <i>y</i>	<i>x</i> or <i>y</i>

Exception Handling	
try:	statements
except [<i>exception type</i> [as <i>var</i>]]:	statements
finally:	statements

Conversion Functions	
int(<i>expr</i>)	Converts <i>expr</i> to integer
float(<i>expr</i>)	Converts <i>expr</i> to float
str(<i>expr</i>)	Converts <i>expr</i> to string
chr(<i>num</i>)	ASCII char <i>num</i>

String / List / Tuple Operations	
len(<i>s</i>)	length of <i>s</i>
<i>s</i> [<i>i</i>]	<i>i</i> th item in <i>s</i> (0-based)
<i>s</i> [<i>start</i> : <i>end</i>]	slice of <i>s</i> from <i>start</i> (included) to <i>end</i> (excluded)
<i>x</i> in <i>s</i>	True if <i>x</i> is contained in <i>s</i>
<i>x</i> not in <i>s</i>	True if <i>x</i> is not contained in <i>s</i>
<i>s</i> + <i>t</i>	the concatenation of <i>s</i> with <i>t</i>
<i>s</i> * <i>n</i>	<i>n</i> copies of <i>s</i> concatenated
sorted(<i>s</i>)	a sorted copy of <i>s</i>
<i>s</i> .index(<i>i</i>)	position in <i>s</i> of <i>item</i>
<i>tem</i>	

More String Operations	
<i>s</i> .lower()	lowercase copy of <i>s</i>
<i>s</i> .replace(<i>old</i> , <i>new</i>)	copy of <i>s</i> with <i>old</i> replaced with <i>new</i>
<i>s</i> .split(<i>delim</i>)	list of substrings delimited by <i>delim</i>
<i>s</i> .strip()	copy of <i>s</i> with whitespace trimmed
<i>s</i> .upper()	uppercase copy of <i>s</i>
See also http://docs.python.org/library/stdtypes.html#string-methods	

Mutating List Operations	
del <i>lst</i> [<i>i</i>]	Deletes <i>i</i> th item from <i>lst</i>
<i>lst</i> .append(<i>e</i>)	Appends <i>e</i> to <i>lst</i>
<i>lst</i> .insert(<i>i</i> , <i>e</i>)	Inserts <i>e</i> before <i>i</i> th item in <i>lst</i>
<i>lst</i> .sort()	Sorts <i>lst</i>
See also http://docs.python.org/library/stdtypes.html#typesseq-mutable	

Dictionary Operations	
len(<i>d</i>)	Number of items in <i>d</i>
del <i>d</i> [<i>key</i>]	Removes <i>key</i> from <i>d</i>
<i>key</i> in <i>d</i>	True if <i>d</i> contains <i>key</i>
<i>d</i> .keys()	Returns a list of keys in <i>d</i>
See also http://docs.python.org/library/stdtypes.html#mapping-types-dict	

Function Definitions	
def <i>name</i> (<i>arg1</i> , <i>arg2</i> , ...):	
<i>statements</i>	
return <i>expr</i>	

Environment	
sys.argv	List of command line arguments (argv[0] is executable)
os.environ	Dictionary of environment variables
os.getcwd()	String with path of current directory
import sys; print(sys.argv) or from sys import argv; print(argv)	

String Formatting	
"Hello, {0} {1}".format("abe", "jones")	Hello, abe jones
"Hello, {fn} {ln}".format(fn="abe", ln="jones")	Hello, abe jones
"You owe me \${0:.2f}".format(253422.3)	You owe me \$253,422.30
now = datetime.now()	
'{:Y-%m-%d %H:%M:%S}'.format(now)	2012-05-16 15:04:33
See also http://docs.python.org/library/string.html#format-specification-mini-language	

Useful Functions	
exit(<i>code</i>)	Terminate program with exit <i>code</i>
raw_input(<i>prom</i>)	Print <i>prompt</i> and readline() from stdin ¹
¹ Use input(<i>prompt</i>) in Python 3	

Code Snippets	
Loop Over Sequence	
for index, value in enumerate(seq):	print("{} : {}".format(index, value))
Loop Over Dictionary	
for key in sorted(dict):	print(dict[key])
Read a File	
with open("filename", "r") as f:	
for line in f:	line = line.rstrip("\n") # Strip newline
print(line)	

Other References	
http://rgruet.free.fr/	
Great Python 2.x Quick Reference	
http://www.cheatography.com/davechild/cheat-sheets/python/	
More Python Cheatsheet Goodness	



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